$$f_1(x_1(t),x_2(t),x_3(t),(x_1(t),x_2(t),x_3(t),p_1,p_2,p_3)=x_1(t)-x_2(t)-x_3(t),$$
$$f_2(x_1(t),x_2(t),x_3(t),(x_1(t),x_2(t),x_3(t),p_1,p_2,p_3)=p_1\cdot x_1(t)+p_2\cdot x_3(t),$$
$$f_3(x_1(t),x_2(t),x_3(t),(x_1(t),x_2(t),x_3(t),p_1,p_2,p_3)=p_3\cdot x_2(t)-p_2\cdot x_3(t),$$

$$\underline{p}=\begin{pmatrix}p_1\\p_2\\p_3\end{pmatrix}$$

FIG. 1

$$\underline{\underline{A}}=\begin{pmatrix}* & * & *\\* & 0 & *\\0 & * & *\end{pmatrix}$$

$$T=\{(1,1),(2,3),(3,2)\}$$

FIG. 2

$$f_1(x_1(t), x_2(t), x_3(t), p_1, p_2, p_3) = x_1(t) - x_2(t) - x_3(t),$$
$$f_2(x_1(t), x_2(t), x_3(t), p_1, p_2, p_3) = p_2 \cdot x_3(t),$$
$$f_3(x_1(t), x_2(t), x_3(t), p_1, p_2, p_3) = -p_2 \cdot x_3(t),$$

$$\underline{p} = \begin{pmatrix} p_1 \\ p_2 \\ p_3 \end{pmatrix}.$$

FIG. 3

$$\underline{\underline{A}} = \begin{pmatrix} * & * & * \\ * & 0 & * \\ 0 & * & * \end{pmatrix}$$

$$T = \{(1,1), (2,3)\}$$

$$Z = \{\{2,3\}\}$$

$$S = \{\{1,2\}\}$$

FIG. 4

A row rank with the elements 2, 3 was found.

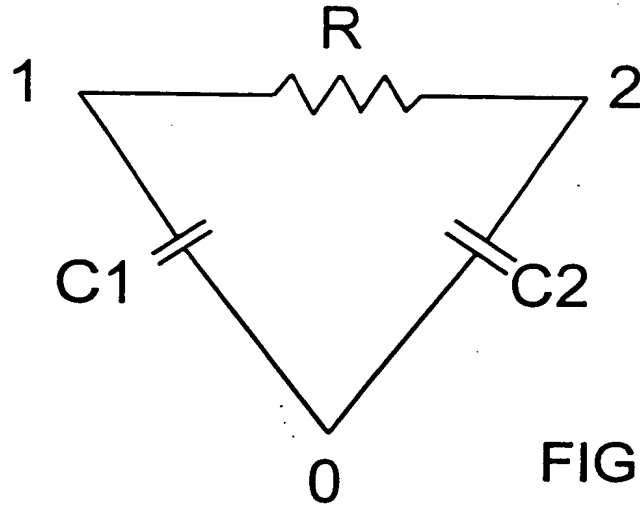A column rank with the elements 1, 2 was found.

FIG. 5

FIG. 6

G = ("1: Kirchhoff voltage equation for the mesh
           comprising C1, R, C2"
     "2: Kirchhoff current equation for the node 1",
     "3: Kirchhoff current equation for the node 2")

K = ("1: Voltage between nodes 1 and 0",
     "2: Voltage between nodes 2 and 0",
     "3: Voltage between nodes 1 and 2")

FIG. 7

A row rank having the elements
"2: Kirchhoff current equation for the node 1",
"3: Kirchhoff current equation for the node 2"
was found.

A column rank having the elements
"1: Voltage between nodes 1 and 0"
"2: Voltage between nodes 2 and 0"
was found.

FIG. 8